DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175–2474
T (786) 315–2590 F (786) 315–2599
www.miamidade.gov/pera

NOTICE OF ACCEPTANCE (NOA)

Firestone Building Products Company, LLC
250 West 96th Street
Indianapolis, IN 46260

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami–Dade County PERA – Product Control Section to be used in Miami–Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami–Dade County Product Control Section (In Miami–Dade County) and/or the AHJ (in areas other than Miami–Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami–Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Firestone UltraPly TPO (MD) Single Ply Roof Systems over Wood Deck.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, and following statement: "Miami–Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami–Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews and revises NOA No. 07-0917.01 and consists of pages 1 through 5.
The submitted documentation was reviewed by Jorge L. Acebo.

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Single Ply Roofing
Material:	TPO
Deck Type:	Wood
Maximum Design Pressure	**-45 psf**

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product Name	Dimensions	Test Specifications	Product Description
Firestone UltraPly TPO (MD)	45", 75", 96", 120" or 148" wide x 100' long x 45, 60, 70 or 80 mils thick	TAS 131 ASTM D 6878	Polyester reinforced Thermoplastic Olefin single ply membrane.
UltraPly Bonding Adhesive (MD)	5 gallon pails	Proprietary	Solvent based, contact adhesives for bonding of roof membrane to substrate.
Firestone ISO Twin Pack		Proprietary	Insulation Adhesive

APPROVED INSULATIONS:

TABLE 2

Product	Product Description	Manufacturer (With current NOA)
ACFoam II	Isocyanurate insulation	Atlas Roofing Corp.
ACFoam III	Isocyanurate insulation	Atlas Roofing Corp.
ACFoam Composite	Isocyanurate insulation with perlite facer	Atlas Roofing Corp.
H-Shield	Isocyanurate insulation	Hunter Panels
H-Shield-WF	Isocyanurate insulation with wood fiberboard facer	Hunter Panels
ENRGY 3 Plus	Isocyanurate insulation with wood fiberboard facer	Johns Manville
ENRGY 3	Isocyanurate Insulation	Johns Manville
Multi-Max FA-3	Isocyanurate insulation	R-Max, Inc
Thermaroof Composite-3	Isocyanurate insulation with perlite facer	R-Max, Inc
Structodek High Density Fiberboard	Wood fiberboard insulation	Blue Ridge Fiberboard, Inc.
DensDeck, DensDeck Prime	Silicon treated gypsum	G-P Gypsum
ISO 95+GL	Isocyanurate insulation	Firestone Building Products

APPROVED FASTENERS:

TABLE 3

Fastener No.	Product	Product Description	Manufacturer (With current NOA)
1.	Dekfast Fasteners	Insulation and membrane fasteners	SFS Intec
2.	OMG Fasteners	Insulation and membrane fasteners	OMG, Inc
3.	Tru-Fast Fasteners	Insulation and membrane fasteners	Tru-Fast Corporation
4.	Firestone Fasteners	Insulation and membrane fasteners	Firestone Building Products
5.	Firestone HD Seam Plates	Seam Plates	Firestone Building Products
6.	#14 Roof grip Fastener	Insulation and membrane fasteners	OMG, Inc.
7.	Firestone All-Purpose Fasteners	Insulation and membrane fasteners	Firestone Building Products
8.	Firestone Metal Batten Strip	Batten bar for mechanical attachment of membrane	Firestone Building Products
9.	Firestone Polymer Batten Strip	Batten bar for mechanical attachment of membrane	Firestone Building Products

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Description	Date
Factory Mutual Research	3009797	TAS 114 (FMRC 4470)	02/04/02
	3007119	TAS 114 (FMRC 4470)	01/02/02
	3005794	TAS 114 (FMRC 4470)	12/13/01
	3002357	TAS 114 (FMRC 4470)	05/16/00
	3005415	TAS 114 (FMRC 4470)	02/08/00
	3002775	TAS 114 (FMRC 4470)	09/16/99
	3000919	TAS 114 (FMRC 4470)	04/07/99
	3003690	TAS 114 (FMRC 4470)	03/29/99
	3B9A2.AM	TAS 114 (FMRC 4470)	01/25/99
	4B1A9.AM	TAS 114 (FMRC 4470)	09/09/98
	1D9A7.AM	TAS 114 (FMRC 4470)	07/31/98
	1D9A0.AM	TAS 114 (FMRC 4470)	07/30/98
	1D0A3.AM	TAS 114 (FMRC 4470)	09/24/97
	1B0A9.AM	TAS 114 (FMRC 4470)	05/09/97
	3015927	TAS 114 (FMRC 4470)	01/26/04
	3023988	TAS 114 (FMRC 4470)	09/29/05
	3025484	TAS 114 (FMRC 4470)	05/31/06
	3027476	TAS 114 (FMRC 4470)	08/11/06
Exterior Research & Design, LLC.	8054.02.02-1	TAS 131	02/22/02
	8064.11.06	FM 4470/TAS 114	11/20/06
Momentum Technologies, Inc.	EX30M3B	ASTM D 6878	06/17/04
Underwriters Laboratories, Inc.	01NK14490	Fire Classification	06/01/01
	96NK22037	TAS 114, (UL 790)	03/10/97
	01NK25823	TAS 114, (UL 1897)	07/02/01
Trinity|ERD	F8300.09.09-2-R1	ASTM D6878	11/24/08

APPROVED ASSEMBLIES:

Membrane Type: Single Ply, TPO

Deck Type 1I: Wood, Insulated

Deck Description Min. 19/32" Plywood or Wood Plank, mechanically attached to supports spaced maximum 24" o.c. with #8 wood screws spaced maximum 6" o.c.

System Type D: Membrane attached over preliminary fastened insulation

All General and System Limitations apply.

Insulation Layer	Fastener Density ft^2	Fastener Type
Any approved Polyisocyanurate in Table 2		
Minimum: 2" thick	N/A	N/A

Note: All insulation shall have preliminary attachment prior to installation of the roofing membrane at a minimum application of two fasteners per board for insulation boards having no dimension greater than 4 ft, and four fasteners for any insulation having no dimension greater than 8 ft.

Membrane: UltraPly TPO (MD) mechanically attached to deck with Firestone HD Seam Plates and Firestone All-Purpose Fasteners or OMG 2-3/8" Eyehook Seam Plates and #14 Roofgrip Fasteners spaced maximum 6" o.c. within minimum 6" wide side laps spaced maximum 69" o.c. Laps are sealed with a minimum 1.5" wide heat weld on outside edge of lap.

Maximum Design Pressure: **-45 psf;** (See General Limitation #7)

WOOD DECK SYSTEM LIMITATIONS:

1. A slip sheet is required with Ply 4 and Ply 6 when used as a mechanically fastened base or anchor sheet.

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer.
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.
   Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. Insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117 and/or RAS 137. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9N-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE